

## University of Groningen

### Signature of renal damage

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# STELLINGEN

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## **Signature of Renal Damage: Studies on Tissue Remodeling**

Ryanne S. Hijmans

1. Tissue remodeling as a signature of renal damage provides the opportunity to detect, monitor and prevent disease progression – *dit proefschrift*
2. Blood pressure independent mechanisms play an important role in aggravation of renal diseases by high dietary sodium intake – *dit proefschrift*
3. Modifications to heparan sulfate caused by a high sodium diet orchestrate tubulo-interstitial remodeling in the kidney – *dit proefschrift*
4. Dermal lymph vessel formation and loss of dermal sodium storage capacity are tissue remodeling responses, likely reflecting the response of the third compartment involved in sodium homeostasis – *dit proefschrift*
5. For the treatment of the downstream consequences of proteinuria there is no specific target in tubulointerstitial fibrosis, inflammation and lymphangiogenesis since these are rather independent tissue remodeling responses – *dit proefschrift*
6. Urinary collagen degradation products can already be found before the balance between renal fibrogenesis and collagen degradation is lost and could therefore be used as early markers for renal fibrosis – *dit proefschrift*
7. In chronic kidney disease, the group of functional biomarkers should be broadened with the more actionable metabolic biomarkers – *dit proefschrift*
8. Everything beyond the glomerulus can piss off – *Onbekend*
9. When you are curious, you find lots of interesting things to do – *Walt Disney*
10. The creation of a worldview is the work of a generation rather than of an individual, but we each of us, for better or for worse, add our brick to the edifice – *John Dos Passos*
11. Pass on what you have learned. Strength, mastery. But weakness, folly, failure also. Yes, failure most of all. The greatest teacher, failure is – *Yoda*
12. Je hebt meer aan een ons komedie dan aan een kilo verstand – *Jan Hijmans*